

Title (en)
BRANCHED CATIONIC LIPIDS FOR NUCLEIC ACIDS DELIVERY SYSTEM

Title (de)
VERZWEIGTE KATIONISCHE LIPIDE FÜR SYSTEM ZUR ZUFÜHRUNG VON NUKLEINSÄUREN

Title (fr)
LIPIDES CATIONIQUES RAMIFIÉS POUR SYSTÈME D'ADMINISTRATION D'ACIDES NUCLÉIQUES

Publication
EP 2350296 A1 20110803 (EN)

Application
EP 09826479 A 20090731

Priority
• US 2009052462 W 20090731
• US 11530708 P 20081117

Abstract (en)
[origin: WO2010056403A1] The present invention is directed to cationic lipid for the delivery of oligonucleotides and methods of modulating an expression of a targeted gene using the nanoparticle compositions. In particular, the invention relates to cholesterol and its derivatives having multiple positively charged moieties via branching spacers, and nanoparticle compositions of oligonucleotides encapsulated in a mixture of a cationic lipid, a fusogenic lipid and a PEG lipid.

IPC 8 full level
C12N 15/88 (2006.01); **C07J 9/00** (2006.01); **C07J 41/00** (2006.01)

CPC (source: EP US)
A61K 9/1272 (2013.01 - EP US); **A61K 31/7088** (2013.01 - EP US); **A61P 29/00** (2017.12 - EP); **A61P 31/12** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **A61P 35/04** (2017.12 - EP); **C07J 41/0055** (2013.01 - EP US); **C12N 15/111** (2013.01 - EP US); **C12N 15/113** (2013.01 - EP US); **C12N 15/1138** (2013.01 - EP US); **C12N 15/88** (2013.01 - EP US); **C12N 2310/11** (2013.01 - EP US); **C12N 2310/315** (2013.01 - EP US); **C12N 2310/3231** (2013.01 - EP US); **C12N 2310/3341** (2013.01 - EP US); **C12N 2320/32** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2010056403 A1 20100520; CA 2742689 A1 20100520; CN 102216462 A 20111012; EP 2350296 A1 20110803; EP 2350296 A4 20130403; JP 2012509258 A 20120419; TW 201019969 A 20100601; US 2011305769 A1 20111215

DOCDB simple family (application)
US 2009052462 W 20090731; CA 2742689 A 20090731; CN 200980145887 A 20090731; EP 09826479 A 20090731; JP 2011536348 A 20090731; TW 98125815 A 20090731; US 200913129495 A 20090731